

L10 ANSWER 1 OF 5 USPATFULL on STN
AN 2004:172873 USPATFULL
TI Process for preparing a branched olefin, a method of using the branched olefin for making a surfactant, and a surfactant
IN Fenouil, Laurent Alain Michel, Twickenham, UNITED KINGDOM
Murray, Brendan Dermot, Houston, TX, UNITED STATES
Ayoub, Paul Marie, Houston, TX, UNITED STATES
PI US 2004133037 A1 20040708
AI US 2003-738572 A1 20031217 (10)
RLI Division of Ser. No. US 2002-75682, filed on 14 Feb 2002, PENDING
PRAI US 2001-269874P 20010215 (60)
DT Utility
FS APPLICATION
LREP Donald F. Haas, Shell Oil Company, Legal - Intellectual Property, P. O.
Box 2463, Houston, TX, 77252-2463
CLMN Number of Claims: 104
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 1467

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A process for preparing branched olefins comprising 0.5% or less quaternary aliphatic carbon atoms, which process comprises dehydrogenating an isoparaffinic composition over a suitable catalyst which isoparaffinic composition comprises paraffins having a carbon number in the range of from 7 to 35, of which paraffins at least a portion of the molecules is branched, the average number of branches per paraffin molecule being at least 0.7 and the branching comprising methyl and optionally ethyl branches, and which isoparaffinic composition may be obtained by hydrocracking and hydroisomerization of a paraffinic wax; a method of using olefins for making an anionic surfactant, a nonionic surfactant or a cationic surfactant, in particular a surfactant sulfate or sulfonate, comprising converting the branched olefins into the surfactant; and an anionic surfactant, a nonionic surfactant or a cationic surfactant which is obtainable by the method of use.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 2 OF 5 USPATFULL on STN
AN 2004:25282 USPATFULL
TI Process for the preparation of a highly linear alcohol composition
IN Dirkzwager, Hendrik, Amsterdam, NETHERLANDS
Fenouil, Laurent Alain, Houston, TX, UNITED STATES
Geijsel, Joannes Ignatius, The Hague, NETHERLANDS
Hoek, Arend, Amsterdam, NETHERLANDS
Van Der Steen, Frederik Hendrik, Amsterdam, NETHERLANDS
PI US 2004019124 A1 20040129
AI US 2003-621816 A1 20030717 (10)
RLI Division of Ser. No. US 2002-167209, filed on 11 Jun 2002, GRANTED, Pat. No. US 6657092
PRAI EP 2001-305087 20010612
DT Utility
FS APPLICATION
LREP Donald F. Haas, Shell Oil Company, Legal - Intellectual Property, P.O.
Box 2463, Houston, TX, 77252-2463
CLMN Number of Claims: 21
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 761

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Process for the preparation of a highly linear alcohol composition is provided comprising the steps of:

- (a) reacting carbon monoxide with hydrogen under Fischer-Tropsch reaction conditions in the presence of a Fischer-Tropsch catalyst comprising cobalt;
- (b) separating from the product of step (a) at least one hydrocarbon fraction comprising between 10 and 50% by weight of olefins containing 6 or more carbon atoms;
- (c) contacting one or more of the hydrocarbon fractions obtained in step (b) with carbon monoxide and hydrogen under hydroformylation conditions in the presence of a hydroformylation catalyst based on a source of cobalt and one or more alkyl phosphines; and
- (d) recovering the alcohol composition.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 3 OF 5 USPATFULL on STN
 AN 2003:106838 USPATFULL
 TI Process for the preparation of a highly linear alcohol composition
 IN Dirkzwager, Hendrik, Amsterdam, NETHERLANDS
 Fenouil, Laurent Alain, Houston, TX, UNITED STATES
 Geijsel, Joannes Ignatius, The Hague, NETHERLANDS
 Hoek, Arend, Amsterdam, NETHERLANDS
 Van Der Steen, Frederik Hendrik, Amsterdam, NETHERLANDS
 PI US 2003073750 A1 20030417
 US 6657092 B2 20031202
 AI US 2002-167209 A1 20020611 (10)
 PRAI EP 2001-305087 20010612
 DT Utility
 FS APPLICATION
 LREP Yukiko Iwata, Shell Oil Company, Legal - Intellectual Property, P.O. Box 2463, Houston, TX, 77252-2463
 CLMN Number of Claims: 21
 ECL Exemplary Claim: 1
 DRWN No Drawings
 LN.CNT 762

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Process for the preparation of a highly linear alcohol composition is provided comprising the steps of:

- (a) reacting carbon monoxide with hydrogen under Fischer-Tropsch reaction conditions in the presence of a Fischer-Tropsch catalyst comprising cobalt;
- (b) separating from the product of step (a) at least one hydrocarbon fraction comprising between 10 and 50% by weight of olefins containing 6 or more carbon atoms;
- (c) contacting one or more of the hydrocarbon fractions obtained in step (b) with carbon monoxide and hydrogen under hydroformylation conditions in the presence of a hydroformylation catalyst based on a source of cobalt and one or more alkyl phosphines; and
- (d) recovering the alcohol composition.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1
 AN 2002:964307 CAPLUS
 DN 138:26102
 TI Two-step process for the preparation of a highly linear

alcohol composition from synthesis gas
IN Dirkzwager, Hendrik; Fenouil, Laurent Alain; Geijsel, Johannes Ignatius;
Hoek, Arend; Van der Steen, Frederik Hendrik
PA Shell Internationale Research Maatschappij BV, Neth.
SO PCT Int. Appl., 29 pp.
CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002100806	A1	20021219	WO 2002-EP6373	20020610
	WO 2002100806	C1	20040415		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1395532	A1	20040310	EP 2002-745373	20020610
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	US 2003073750	A1	20030417	US 2002-167209	20020611
	US 6657092	B2	20031202		
	US 2004019124	A1	20040129	US 2003-621816	20030717
PRAI	EP 2001-305087	A	20010612		
	WO 2002-EP6373	W	20020610		
	US 2002-167209	A3	20020611		

AB The title process comprises the steps of: (a) reacting carbon monoxide with hydrogen under Fischer-Tropsch reaction conditions in the presence of a Fischer-Tropsch catalyst containing cobalt (e.g., CoMn/titania); (b) separating from the product of step (a) at least one hydrocarbon fraction comprising 10-50% of C \geq 6 olefins; (c) contacting one or more of the hydrocarbon fractions obtained in step (b) with carbon monoxide and hydrogen under hydroformylation conditions in the presence of a hydroformylation catalyst based on a source of cobalt and one or more alkylphosphines (e.g., 9-eicosyl-9-phosphabicyclononane); and (d) recovering the alc. compn. The alc. compn. comprises C12/C13 linear primary mono-alcs. and C12/C13 iso-alcs., where the wt. ratio C12 linear primary alc. to C13 linear primary alc. is 0.5-2.0. The alc. compn. also contains C14/C15 linear primary mono-alcs. and C14/C15 iso-alcs., where the wt. ratio of the C14 linear primary alc. to the C15 linear primary alc. is 1.0-3.0.

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 5 OF 5 USPATFULL on STN
AN 2002:323394 USPATFULL
TI Process for preparing a branched olefin, a method of using the branched olefin for making a surfactant, and a surfactant
IN Fenouil, Laurent Alain Michel, Twickenham, UNITED KINGDOM
Murray, Brendan Dermot, Houston, TX, UNITED STATES
Ayoub, Paul Marie, Houston, TX, UNITED STATES
PI US 2002183567 A1 20021205
US 6765106 B2 20040720
AI US 2002-75682 A1 20020214 (10)

PRAI US 2001-269874P 20010215 (60)
DT Utility
FS APPLICATION
LREP Yukiko Iwata, Shell Oil Company, Legal - Intellectual Property, P.O. Box
2463, Houston, TX, 77252-2463
CLMN Number of Claims: 104
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 1465

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A process for preparing branched olefins comprising 0.5% or less quaternary aliphatic carbon atoms, which process comprises dehydrogenating an **isoparaffinic** composition over a suitable catalyst which **isoparaffinic** composition comprises paraffins having a carbon number in the range of from 7 to 35, of which paraffins at least a portion of the molecules is branched, the average number of branches per paraffin molecule being at least 0.7 and the branching comprising methyl and optionally ethyl branches, and which **isoparaffinic** composition may be obtained by hydrocracking and hydroisomerization of a paraffinic wax; a method of using olefins for making an anionic surfactant, a nonionic surfactant or a cationic surfactant, in particular a surfactant sulfate or sulfonate, comprising converting the branched olefins into the surfactant; and an anionic surfactant, a nonionic surfactant or a cationic surfactant which is obtainable by the method of use.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.